## **AMENDMENTS TO THE CLAIMS**

This listing of claims will replace all prior versions of claims in the application:

## **Listing of Claims:**

1. (Currently Amended) A system that facilitates identifying human interaction comprising a computer processor for executing the following software components, the software components system is recorded on a computer-readable medium and being executed by the computer processor capable of execution by a computer:

an access control component that controls access to one of a computer-based action and computer-based application; and

an identification component that facilitates determining that access is initiated by a human, the identification component presenting an order-based problem to be solved before access is allowed, the order-based problem being an order-based human interactive proof (HIP) and comprising an arrangement of a plurality of objects whereby a user is asked to correctly identify at least a subset of the objects as well as to identify them in a particular order, the order being based at least in part upon a set of instructions provided to the user, wherein at least a first subset of the objects being at least partially obscured by a second subset of objects, and the identification component communicating with an order-based problem database to retrieve order-based problems as needed.

## 2. (Canceled)

- 3. (Previously Presented) The system of claim 1, the objects comprising images, pictures, shapes, characters, and other visual elements which are identifiable by a human.
- 4. (Original) The system of claim 3, wherein any one of the images, pictures, shapes, characters, and other visual elements vary in at least one of size, dimension, color, and distortion.

## 5. (Canceled)

- 6. (Original) The system of claim 1, the order-based problem being a "start to end" HIP wherein a user is required to find a path of a consistent type and identify objects such as characters along the path.
- 7. (Original) The system of claim 6, wherein the path of a consistent type comprises a subset of objects which are connected by a consistent type of connector, the connector being selected from a group consisting of any one of arrows, lines, dotted lines, dashed lines, and shapes.
- 8. (Original) The system of claim 7, wherein at least a portion of the connectors are obscured by at least one of the following: at least one translucent shape and at least one opaque shape.
- 9. (Original) The system of claim 8, the at least one translucent shape obscuring larger portions of the connectors.
- 10. (Original) The system of claim 8, the at least one opaque shape obscuring smaller portions of the connectors.
- 11. (Original) The system of claim 7, the connectors being arrows whereby a user is required to identify a connected sequence of arrows, the arrows being of a same type, from a start position to an end position.
- 12. (Original) The system of claim 1, the order-based problem being a three-dimensional HIP wherein a user is required to find an ordering of objects in a three-dimensional image.
- 13. (Original) The system of claim 12, the ordering of objects being determined from at least one of a front-to-back viewing and a back-to-front viewing of the image.

- 14. (Original) The system of claim 12, the ordering of objects being determined from at least one of a left-to-right viewing and a right-to-left viewing of the image.
- 15. (Original) The system of claim 12, wherein the objects comprise any one of letters and numbers.
  - 16. (Original) The system of claim 12, wherein the objects vary in size.
- 17. (Original) The system of claim 12, wherein the image comprises one or more depth clues, the clues comprising any one of shadows, reflections, fog, and partial occlusions.
- 18. (Original) The system of claim 17, the partial occlusions comprising at least a first object blocking at least a portion of a second object.
- 19. (Original) The system of claim 17, the shadows being produced by multiple light sources.
- 20. (Original) The system of claim 1, the order-based problem being a maze HIP wherein a user is required to maneuver an object through a maze configuration from a start position to an end position and to identify characters from a start position to an end position in the maze.
  - 21. (Original) The system of claim 20, the object being a rectangular block.
- 22. (Original) The system of claim 20, the maze HIP configuration comprising a plurality of objects arranged in such a way as to provide a single path for the object to maneuver through a subset of the plurality of objects to reach the end position.
- 23. (Original) The system of claim 22, the plurality of objects comprising at least one of geometric shapes, rounded shapes, pointed shapes, angled shapes, and images of real objects.

- 24. (Original) The system of claim 23, wherein recognition of the images of real objects is required to determine the path for the odd-shaped object.
- 25. (Currently Amended) A method that facilitates identifying human interaction comprising:

presenting an order-based HIP to a user desiring access to at least one of a HIP-controlled computer-based action and a HIP-controlled computer-based application, the order-based HIP being retrieved from a HIP database;

requesting the user to solve the order-based HIP to gain the access, solving the order-based HIP, comprising:

viewing an image comprising a plurality of objects;

identifying at least a subset of the objects, the subset of objects determined at least in part upon a set of given instructions, wherein at least a first subset of the objects being at least partially obscured by a second subset of objects; and

ordering the at least a subset of the objects, the ordering determined at least in part upon the set of given instructions; and

determining whether access should be given based at least in part on the user's response to the HIP.

- 26. (Canceled)
- 27. (Original) The method of claim 25, the objects comprising any one of the following: shapes, images, letters, and numbers.
  - 28. (Canceled)
  - 29. (Original) The method of claim 25, at least a subset of the objects being distorted.
- 30. (Original) The method of claim 25, further comprising allowing access to at least one of the computer-based action and computer-based application when an acceptable answer to the HIP is given.

31. (Original) The method of claim 30, the acceptable answer being at least one of the following:

a correct answer; and

an answer consistently received from a percentage of users, whereby the percentage exceeds a minimum threshold.

Claims 32-70 (Canceled)